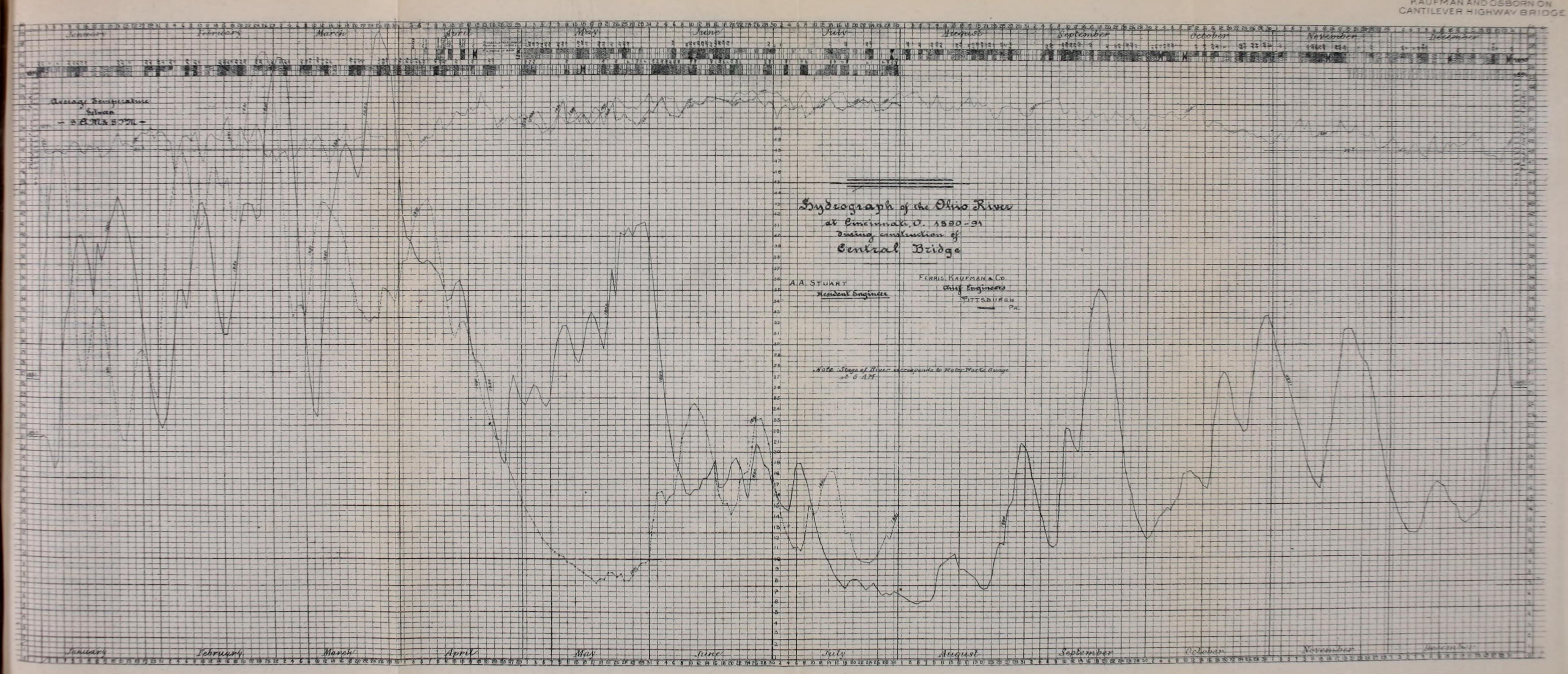
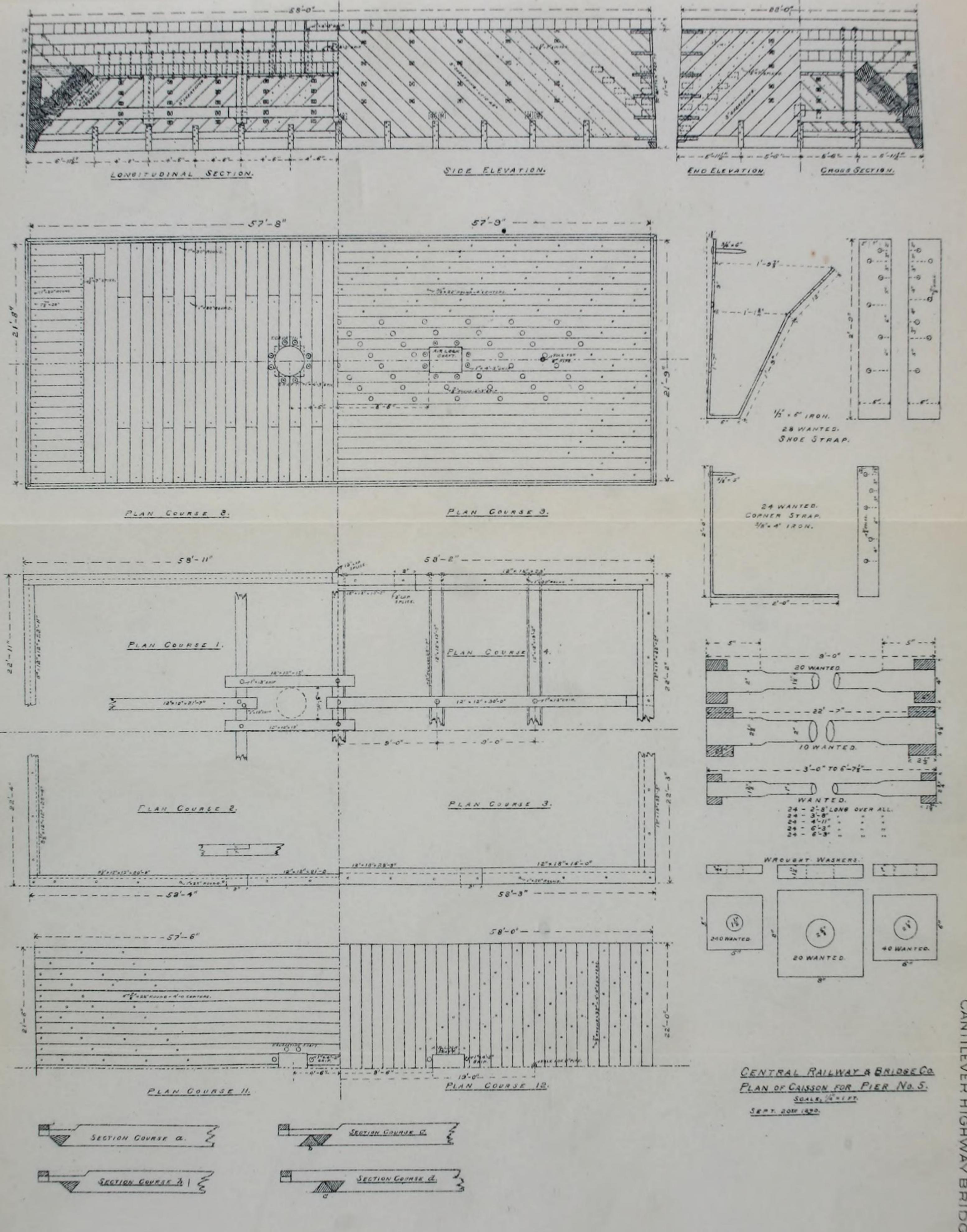


RESIDENT ENGINEER,

A. A. Stuart.

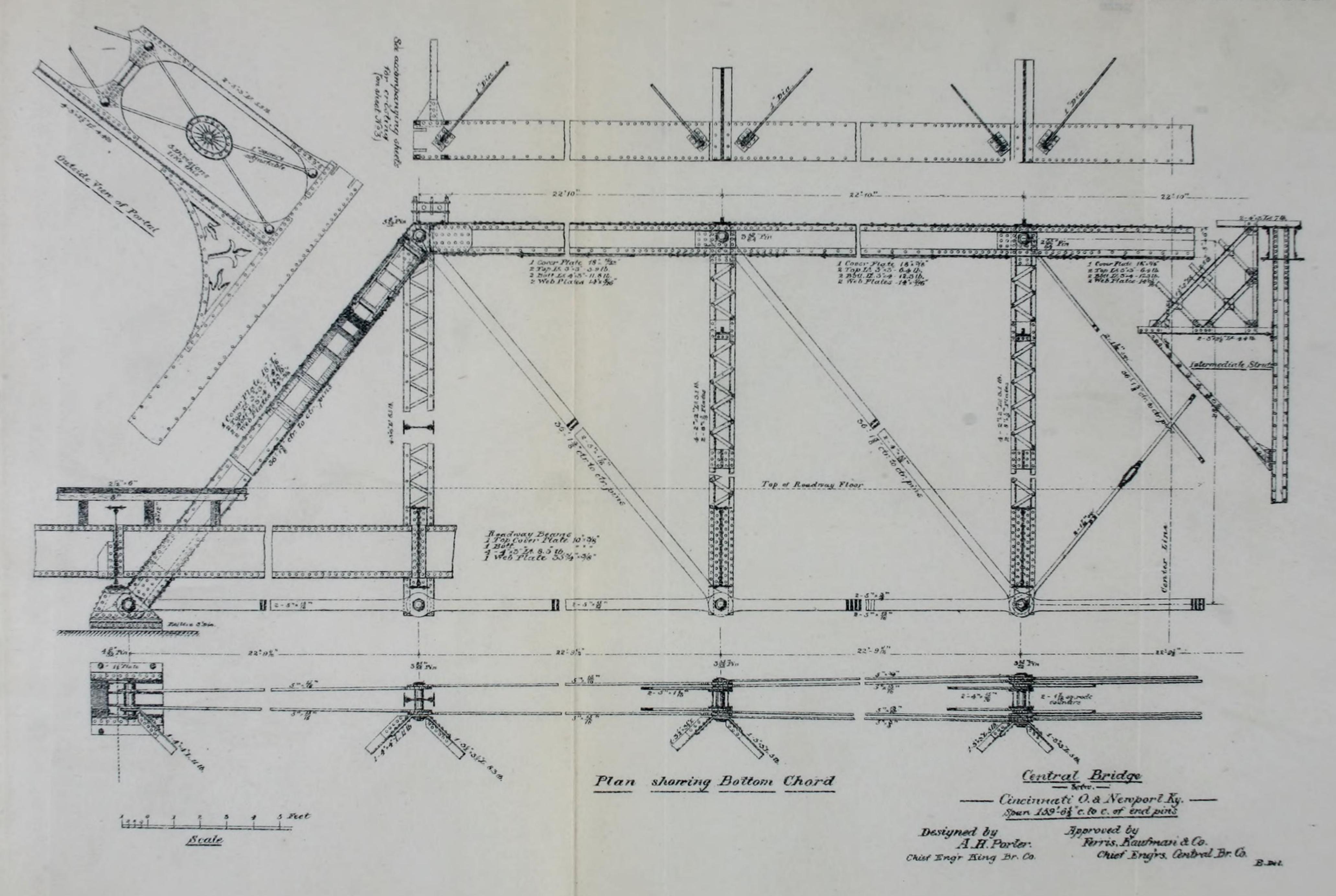




TRANSAMSOCIONENGRS.

VOLXXVII.NOSBORNON

KAUFMAN AND OSBORNON



—— Central Bridge
—— between —
Cincinnati O. and Nemport Ky.

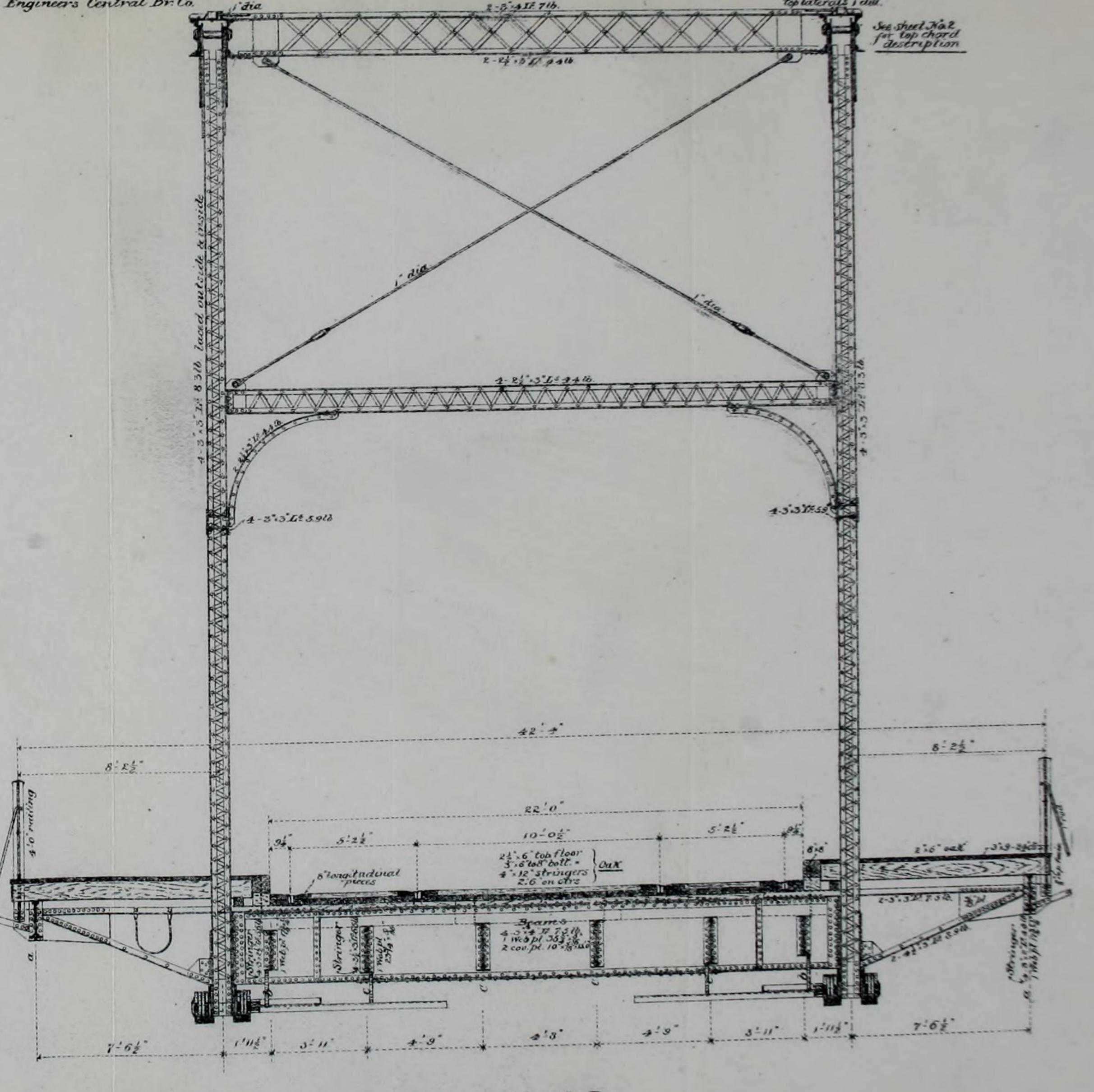
Designed by

A. H. Porter

Chief Engir King Br. Co.

Engineer's Central Br. Co.

PLATEXXXIV
TRANS.AM.SOC.CIV.ENGRS.
VOL.XXVII.N9 545.
KAUFMAN AND OSBORN ON
CANTILEVER HIGHWAY BRIDGE.



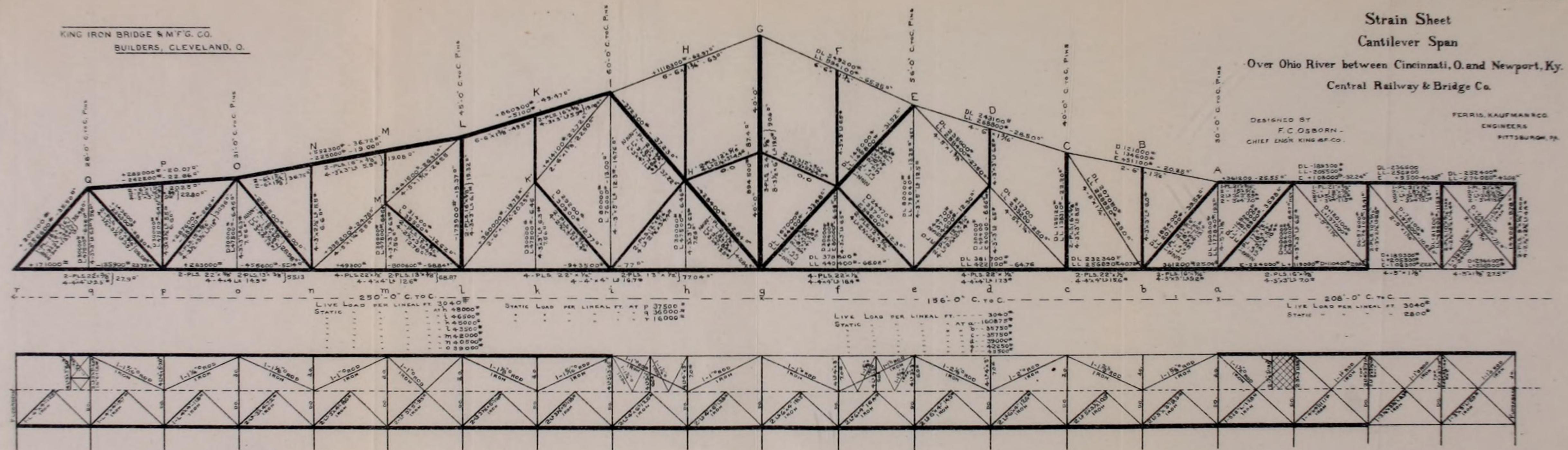
Span 250'6 ctr. to chr. end pins

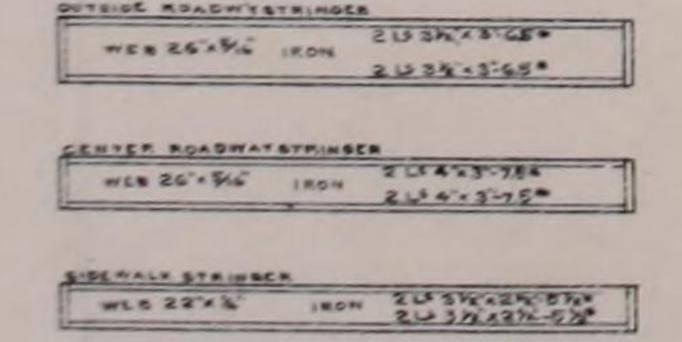
— See sheet Nº2. —

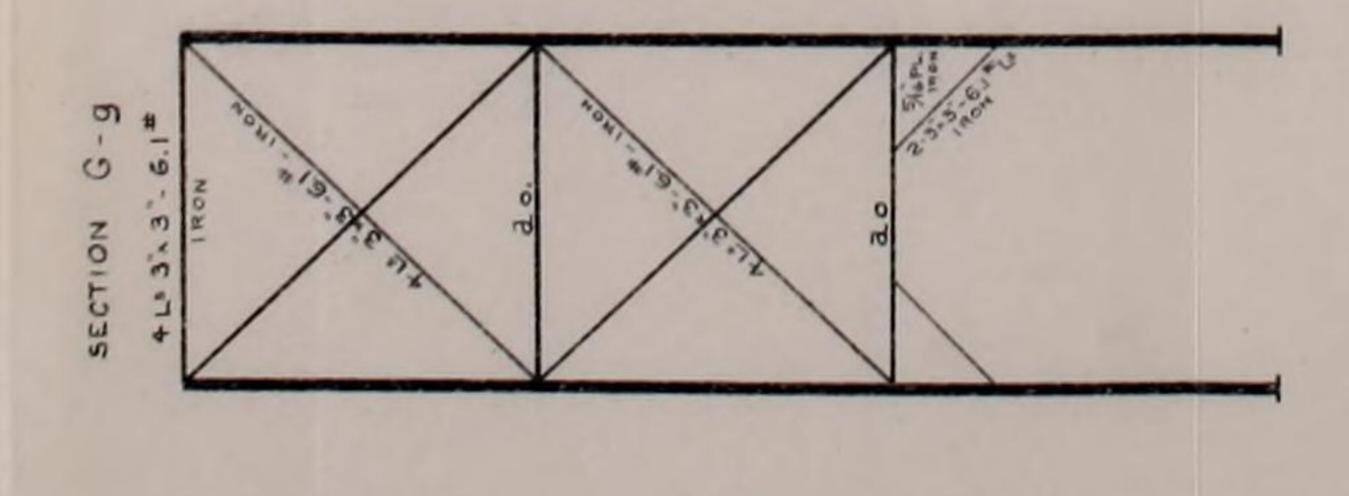
Span R50'6 "ctr. to ctr. end pins

— See sheet NoR —

Scale Scale







ALL MATERIAL STEEL EXCEPT WHERE OTHERWISE MARKED.

LIVE LOAD - FOR ALL TRUSS MEMBERS RECEIVING MORE THAN ONE BANEL LOAD, EIGHTY (60) FOUNDS FER SQUARE FOOT FOR SUSPENDED SPAN AND CANTILEVER ARMS. FOR STRINGERS, FLOORBEAMS, AND LONG SUSPENDERS ONE HUNDRED (100) FOUNDS FER SQUARE FOOT OF CLEAR ROAD WAY AND SIDEWALKS, OR AN AVELING AND PORTER FIFTEEN TON STEAM ROAD ROLLER.

IN THE CALCULATION OF STRESSES THE FOLLOW-

FOR MAIN TRUSS MEMBERS, THE ROADWAY AND BOTH

FOR LONG SUBPENDERS, ROADWAY AND ONE
SIDEWALK ONLY WILL BE CONSIDERED LOADED, AND
FOR FLOORBEAMS, THE ROADWAY WILL BE CONSIDERED
LOADED WITH SIDEWALKS UNLOADED, ALSO ROADWAY
UNLOADED WITH SIDEWALKS LOADED.

THE ABOVE BOROUNDS HER SQUARE FOOT IS TAKEN ON CLEAR ROADWAY AND SIDEWALKS.

WIND LOAD - STRESDES CALCULATED FOR A PRESSURE
OF THIRTY (30) FOUNDS FER BOUARE FOOT ON THE EXPOSED SURFACES OF BOTH THUSSES AND RAILINGS AND
A MOVING LOAD SURFACE OF SIX (6) TEET PER LINEAL
FOOT OF BRIDGE.

LATERAL STRUTS - LATERAL STRUTS WILL BE PROPORTIONED TO RESIST THE RESULTANT DUE TO AN INITIAL STRESS OF TEN THOUSAND (1900) FOUNDS PER SQUARE INCH UPON ALL RODS ATTACHED TO THEM, WHEN THIS IS IN EXCESS OF WIND STRESS. THE FIBER STRESS DUE TO WEIGHT OF STRUT MUST BE CONSIDERED AND BE REDUCTED FROM THE UNIT STRESS SPECIFIED.

approved:

Ferris Kaufman ton

May 31, 1890)

ALLOWED STRAINS PER SQ. INCH

TE	RUSSES
TENSION Manuers	INON SYEEL
EYEBARS AND COUNTERS	10000 (1+2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
	leoes ; leoes
LATERAL MODE	18000
COMPRESSION MEMBERS	
SQUARE ENDS	Bood - 30 2 ; 15000 - 60 }
ONE SQUARE AND ONE PINEND	9000-35- 15000-70
PIN ENDS	3000-+0\$: 15000-60\$
LATERAL STRUTS	11000-504
IN WHICH LEDISTANCE BETWE	
TO LEAST MARINE OF	POPRATION IN INCHES

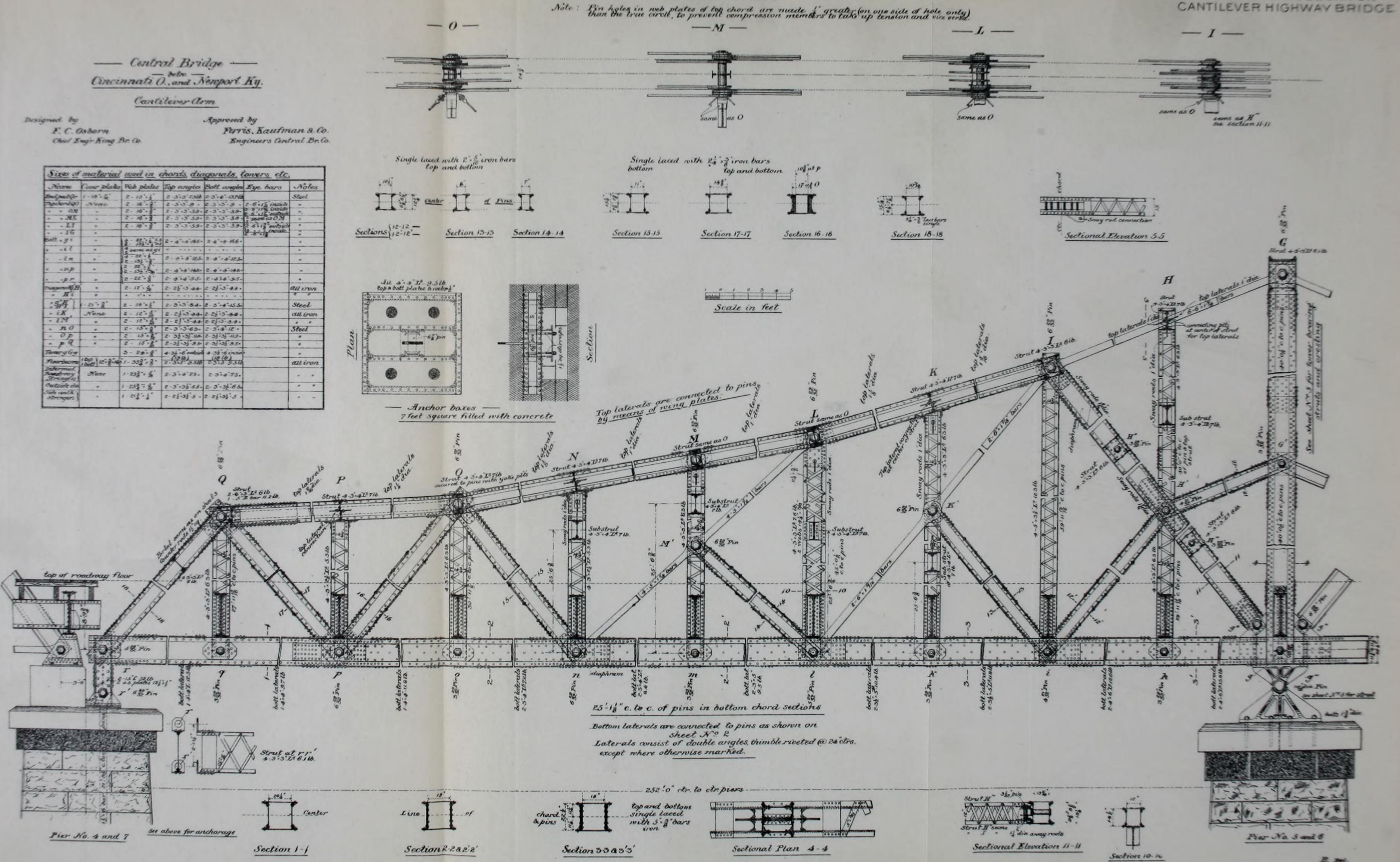
ALTERNATE TENSION AND COMPRESSION

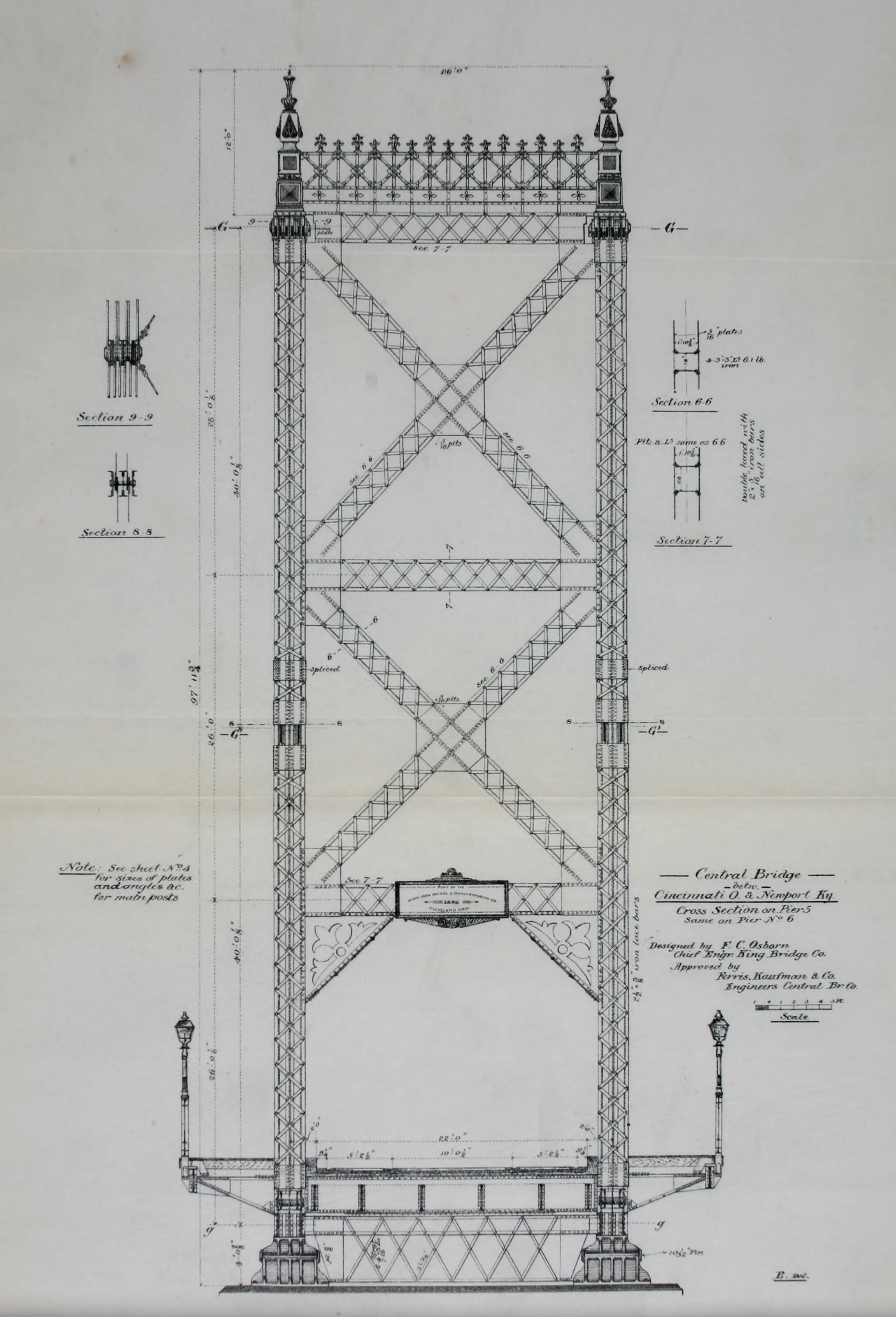
FOR ORESTER ATRESS HOUSE THE BREATER AREA OF SECTION

FLOORBEAMS AND STRINGERS

TENSION (NET SECTION) INNO (- MEMORY); INNO (- MEMORY)

COMPRESSION - USE SAME GROSS AREA AS TENSION PLANTE.





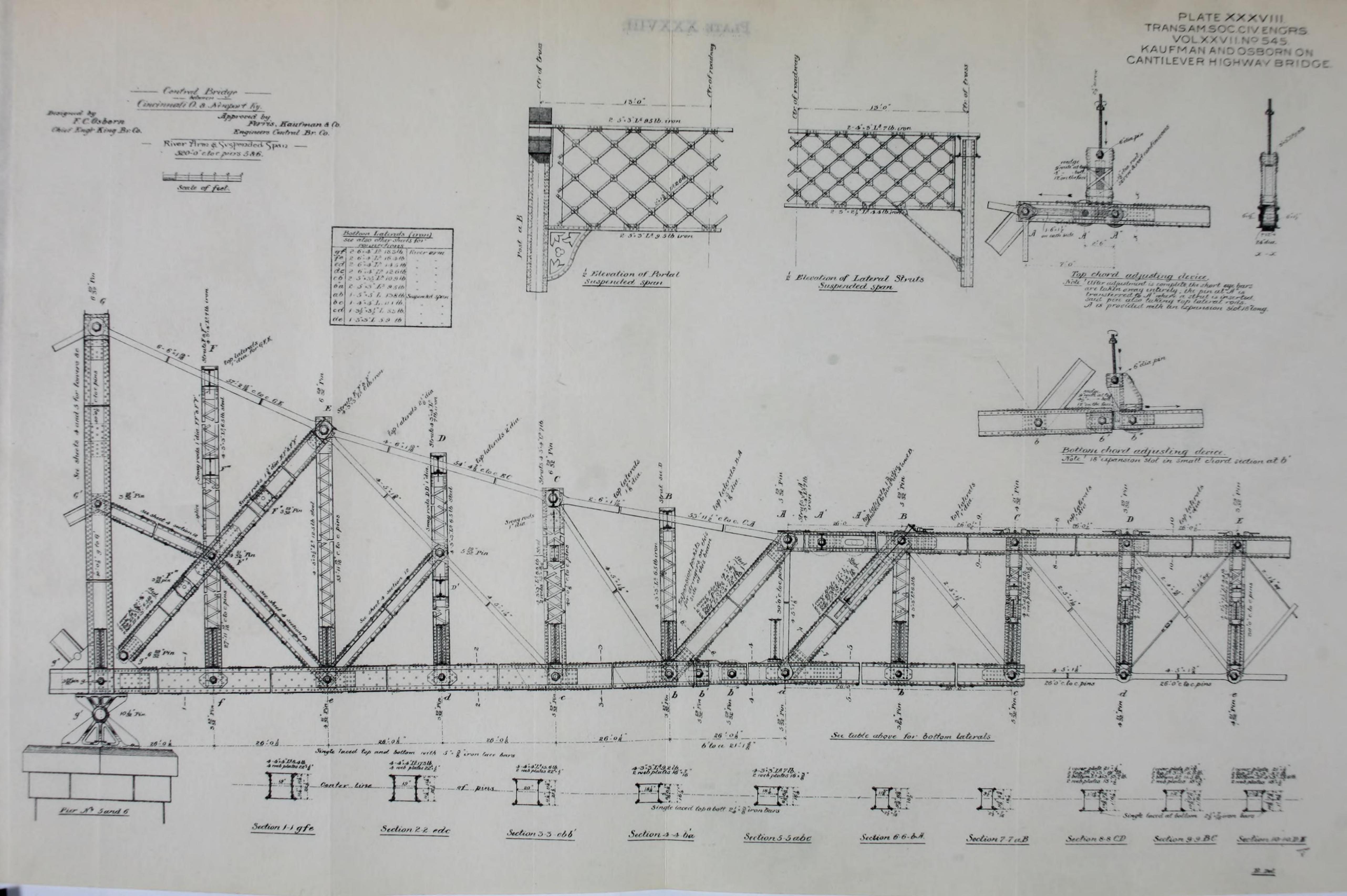
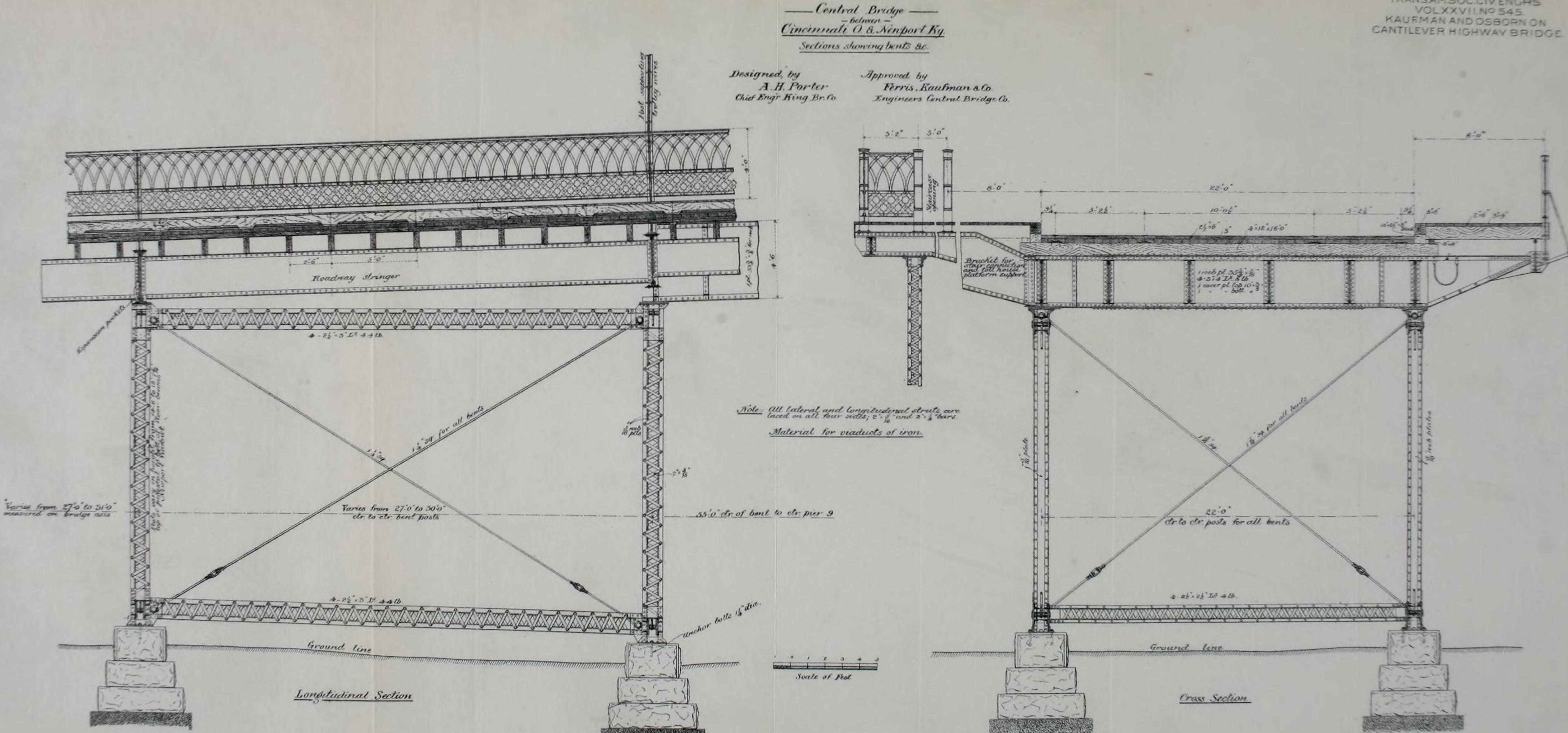
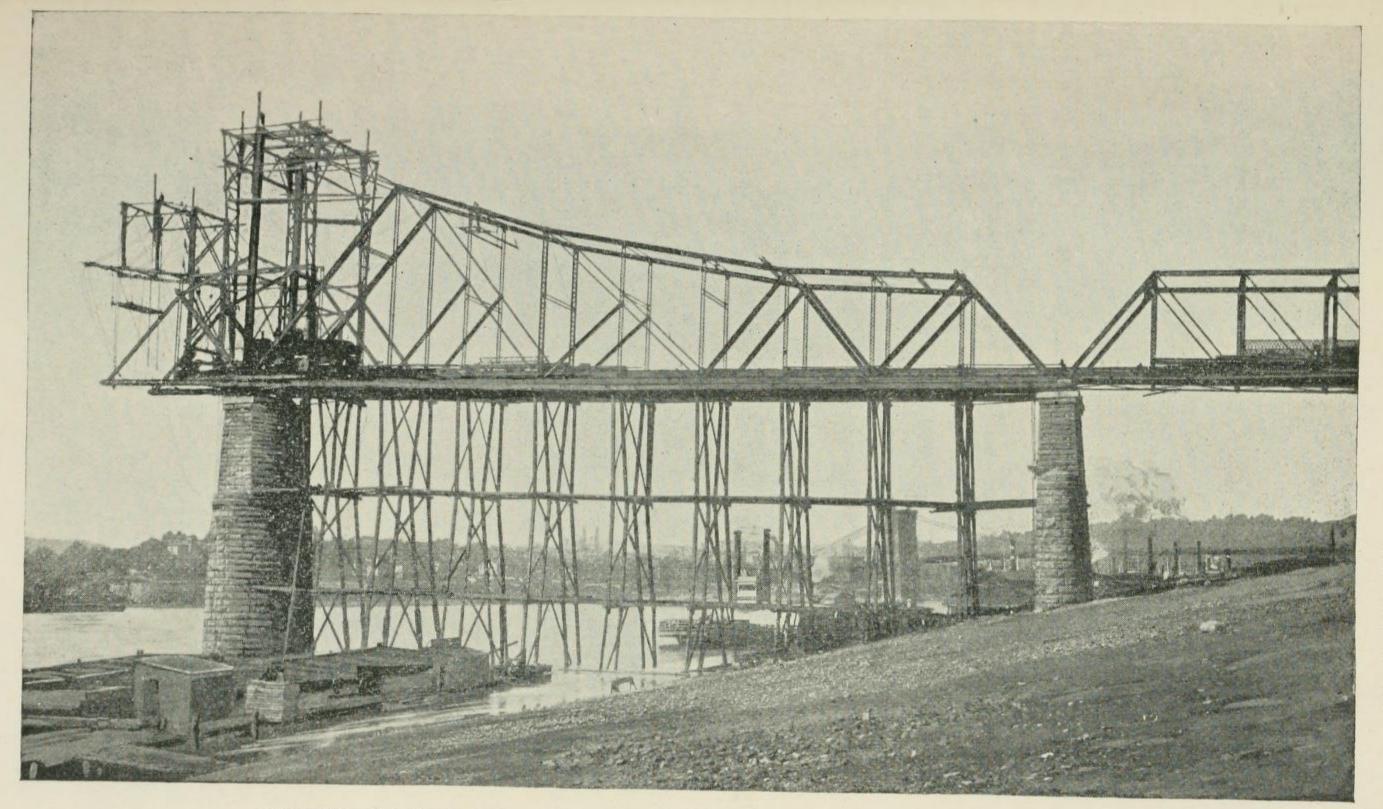


PLATE XXXIX.
TRANSAM.SOC.CIV.ENGRS.
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KAUFMAN AND OSBORN ON
CANTILEVER HIGHWAY BRIDGE.



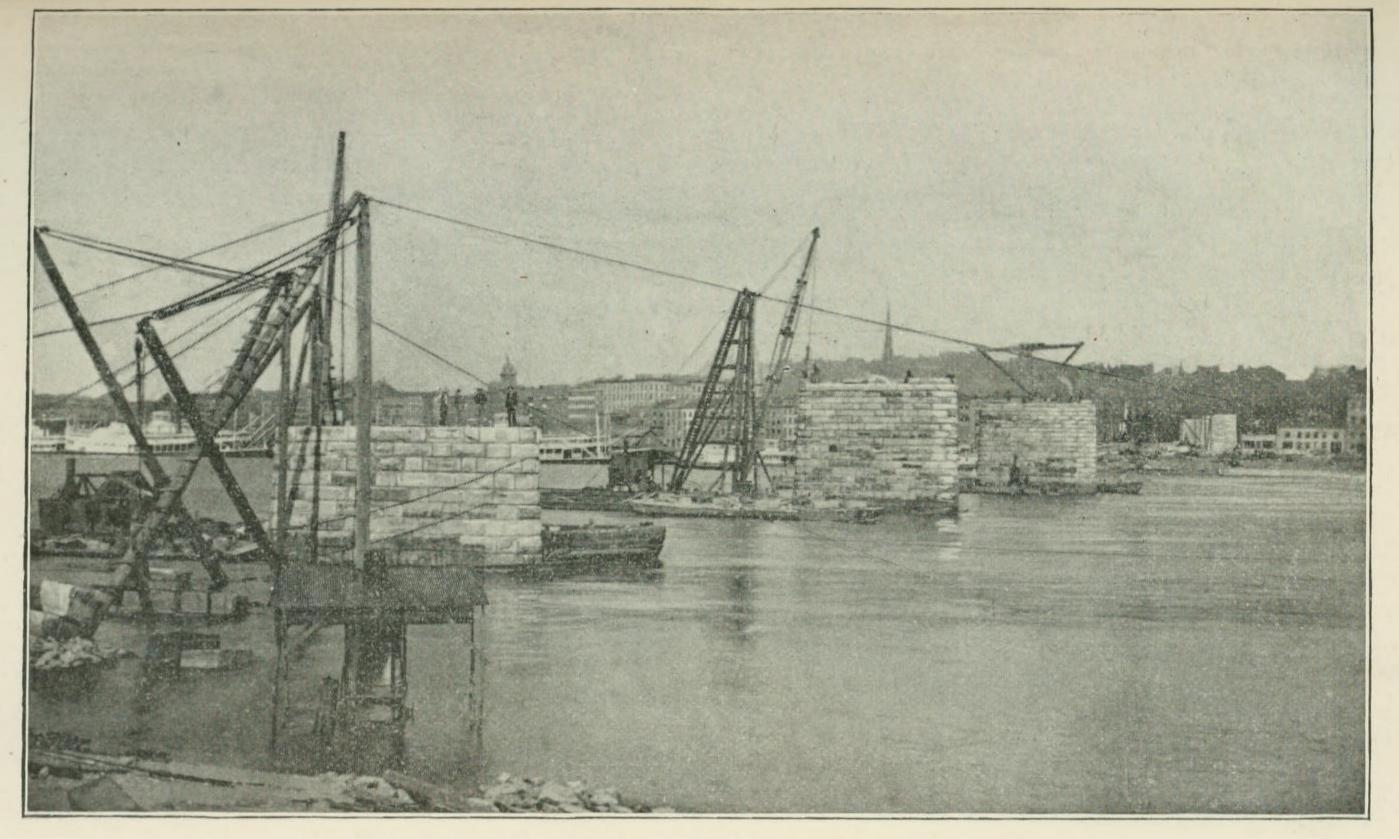


ANCHORAGE ARM OF CANTILEVER ON CINCINNATI SIDE, JULY 14TH, 1891.

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AUFMAN & OSBORN ON CANTILEVER



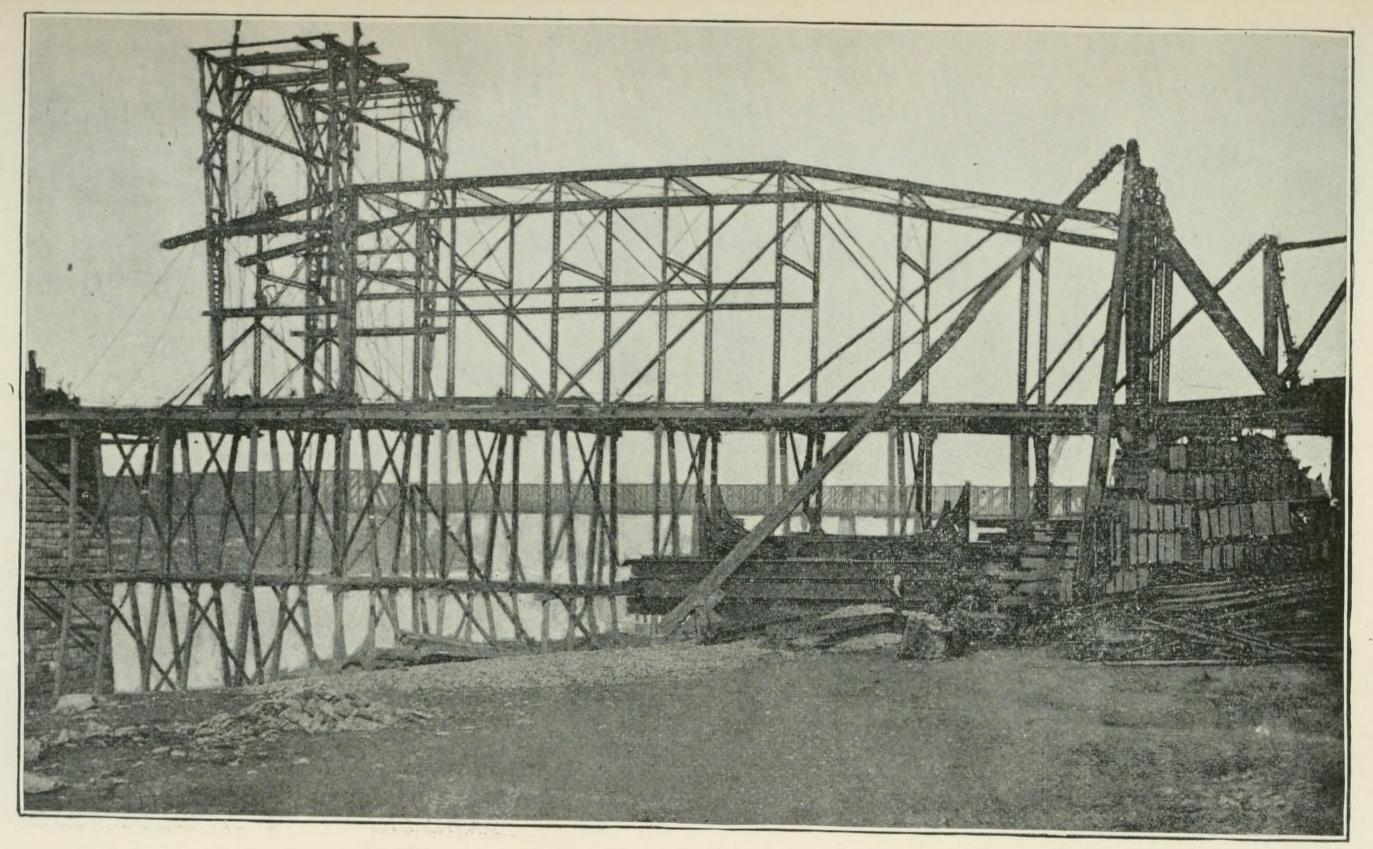
GENERAL VIEW OF RIVER PIERS, SEPTEMBER 20th, 1890.

PLATE XL.

TRANS. AM. SOC. CIV. ENGS.

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KAUFMAN & OSBORN ON CANTILEVER
HIGHWAY BRIDGE.

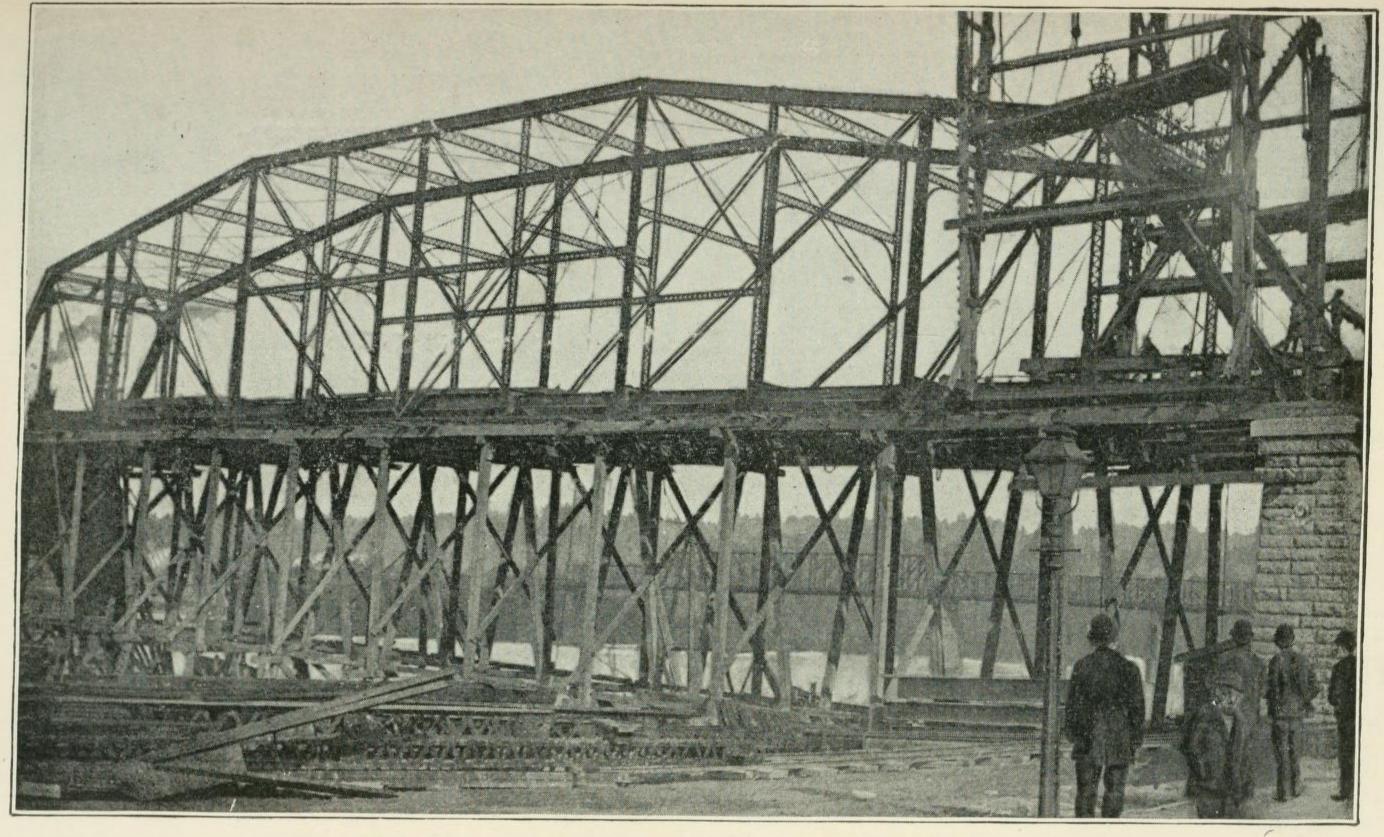


SPAN 8 AND 9, NEWPORT SIDE, NOVEMBER 14TH, 1890.

TRANS. AM. SOC. CIV. ENGS.

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KAUFMAN & OSBORN ON CANTILEVER
HIGHWAY BRIDGE.

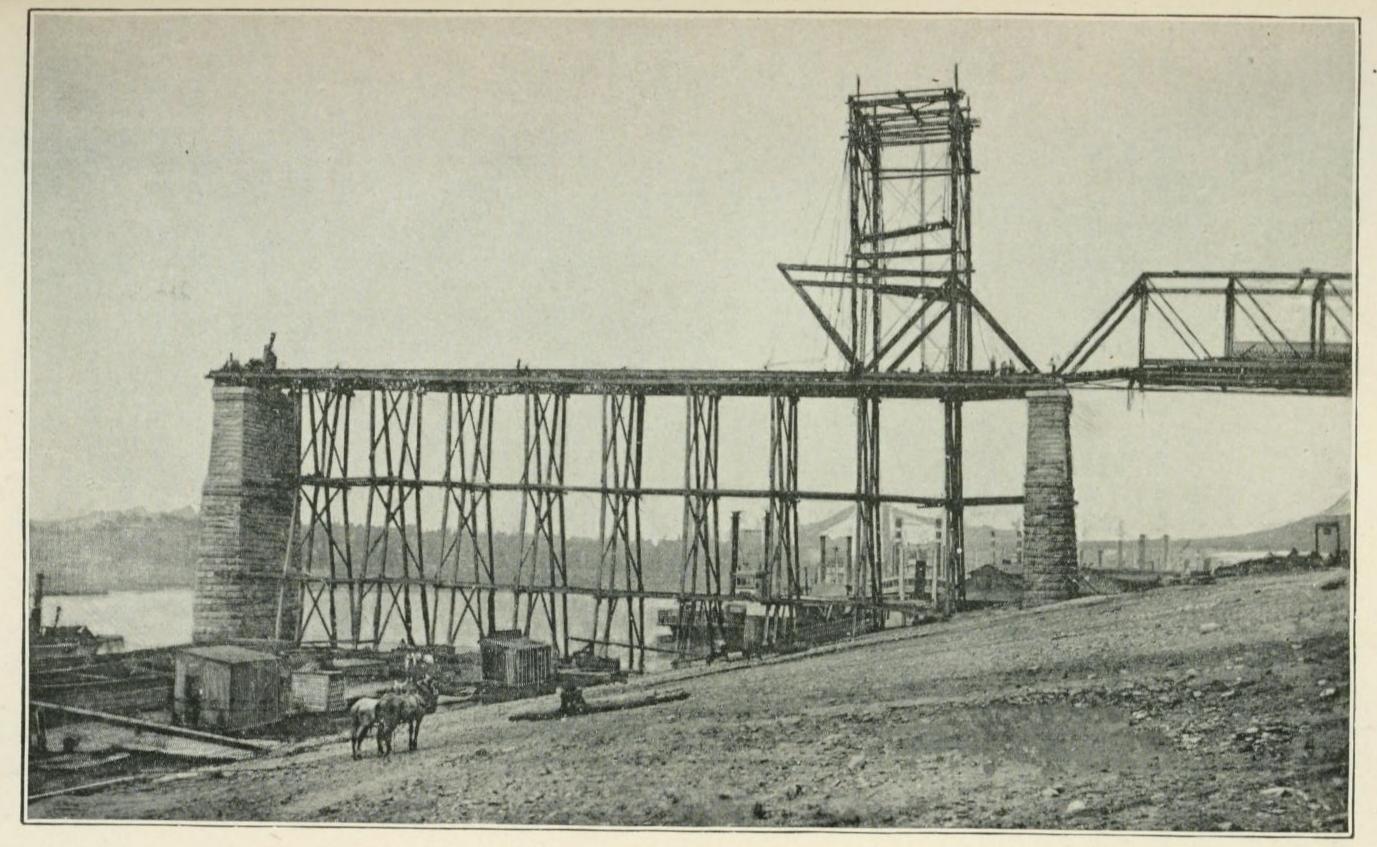


SPAN 8 AND 9, NEWPORT SIDE, NOVEMBER 17th, 1890.

TRANS. AM. SOC. CIV. ENGS.

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KAUFMAN & OSBORN ON CANTILEVER



ANCHORAGE ARM OF CANTILEVER, CINCINNATI SIDE, JUNE 30TH, 1891.

TRANS. AM. SOC. CIV. ENGS.

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UFMAN & OSBORN ON CANTILEVER